

CLAIMS LISTING

1. (Original) A wiring system for interconnecting at least first and second device connectors of an electronic control unit and at least first and second external connectors associated with at least one electronic device spaced apart from the electronic control unit, the first and second device connectors having a predetermined first terminal arrangement pattern, the first and second external connectors having a predetermined second terminal arrangement pattern which does not correspond to the predetermined first terminal arrangement pattern, the wiring system comprising:

at least first and second long, main harnesses each having at least one wire terminated with an end terminal at one end thereof and with a relay terminal at the other end thereof, the end terminal being inserted in an end connector and the relay terminal being inserted in a relay connector, the end connectors of the first and second main harnesses being configured for connection to the first and second external connectors;

at least first and second, short sub harnesses each having at least one wire terminated with an end terminal at one end thereof and with a relay terminal at the other end thereof, the end terminal being inserted in an end connector and the relay terminal being inserted in a relay connector, the end connectors of the first and second sub harnesses being configured for connection to the first and second device connectors, the relay connectors of the first and second sub harnesses being configured for connection to the relay connectors of the first and

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second main harnesses, so that at least first and second wiring harnesses are formed when the relay connectors of the first and second sub harnesses and the relay connectors of the first and second main harnesses are coupled together;

wherein the relay connectors of the first and second sub harnesses, the relay connectors and the end connectors of the first and second main harnesses include a predetermined terminal arrangement pattern that is configured to correspond to the predetermined second terminal arrangement pattern of the first and second external connectors, so that the wire of the first main harness and the wire of the second main harness extend without intersecting with each other, whereby the end and relay terminals of the first and second main harnesses can be mounted in the end and relay connectors of the first and second main harnesses respectively during subassembly, and whereby the first and second main harnesses can be sub-assembled independently of each other; and

wherein the end connectors of the first and second sub harnesses include a predetermined terminal arrangement pattern that is configured to correspond to the predetermined first terminal arrangement pattern of the first and second device connectors which does not correspond to the predetermined second terminal arrangement pattern of the first and second external connectors, so that the wire of the first sub harness and the wire of the second sub harness extend, intersecting with each other, whereby the first and second sub harnesses cannot be sub-assembled independently of each other.

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2. (Original) The wiring system of claim 1, wherein the first and second sub harnesses each constitute approximately 5% to 10% of a total length of the first and second wiring harnesses, respectively.

3. (Original) The wiring system of claim 2, wherein the wires of the first and second main harnesses measure approximately 2000 mm-3000 mm and the wires of the first and second sub harnesses measure approximately 100 mm.

4-17. Canceled.